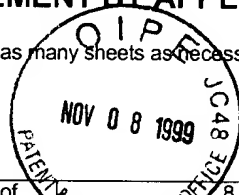


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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) <div style="text-align: center;">  </div>			Application Number	09/235,875
			Filing Date	January 22, 1999
			First Named Inventor	Lara Madison
			Group Art Unit	4744 1638
			Examiner Name	
			Attorney Docket Number	MBX 020
Sheet	1	of	8	

U.S. PATENT DOCUMENTS

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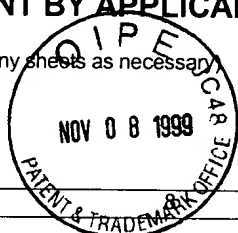
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		First Named Inventor	Lara Madison
		Group Art Unit	1744 1638
		Examiner Name	
Sheet 2 of	Attorney Docket Number	MBX 020	



FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office. ³	Number ²	Kind Code ⁵ (if known)				
ATN	✓	BR	9302312-0	A	COPERSUC	02-07-1995		
	•	CA	2,006,508		Xerox Corp.	08-27-1990		
	•	DE	195 33 459	C1	Buna Sow Leuna Olefinverbund GmbH	11-28-1996		
	•	JP	7-79788		Toyo Soda KK	03-28-1995		
	•	JP	7-135985		Mitsubishi Gas Chem. Co.	05-30-1995		
	•	WO	91/13207	A1	Pulp and Paper Research Institute of Canada	09-05-1991		
	•	WO	92/09210	A1	The Nutrasweet Company	06-11-1992		
	•	WO	92/09211	A1	The Nutrasweet Company	06-11-1992		
	•	WO	93/23554	A1	Buna AG	11-25-1993		
	•	WO	95/15260	A1	Zeneca Limited	06-08-1995		
	•	WO	95/20614	A1	The Procter & Gamble Co.	08-03-1995		
	•	WO	95/20615	A1	The Procter & Gamble Co.	08-03-1995		
	•	WO	95/20621	A1	The Procter & Gamble Co.	08-03-1995		
	•	WO	96/00263	A1	Onderzoek En Ontwikkeling Noord Nederland	01-04-1996		
	•	WO	96/17369	A1	Cookson Group, PLC	06-06-1996		
ATN	•	WO	97/08931	A1	Buna Sow Leuna Olefinverbund GMBH	03-13-1997		

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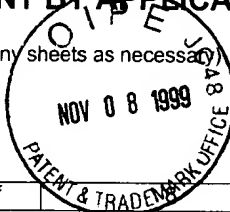
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ATN		ABE, et al., "Biosynthesis from gluconate of a random copolyester consisting of 3-hydroxybutyrate and medium-chain-length 3-hydroxyalkanoates by <i>Pseudomonas</i> sp. 61-3," <i>Int. J. Biol. Macromol.</i> 16:115-19 (1994).	
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		BOUQUIN, et al., "Resistance to trifluoroperazine, a calmodulin inhibitor, maps to the <i>fabD</i> locus in <i>Escherichia coli</i> ," <i>Mol Gen Genet.</i> 246(5):628-37 (1995).	
		BOYNTON, et al., "Cloning, sequencing, and expression of clustered genes encoding beta-hydroxybutyryl-coenzyme A (CoA) dehydrogenase, crotonase, and butyryl-CoA dehydrogenase from <i>Clostridium acetobutylicum</i> ATCC 824," <i>J Bacteriol.</i> 178(11):3015-24 (1996).	
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		BYROM, "Miscellaneous Biomaterials" in <i>Biomaterials</i> (D. Byrom, ed.) pp. 333-59 (MacMillan Publishers, London 1991).	
		CABALLERO, et al., "Biosynthesis and characterization of hydroxybutyrate-hydroxycaproate copolymers," <i>Int J Biol Macromol.</i> 17(2):86-92 (1995).	
		CLARK & ROD, "Regulatory mutations that allow the growth of <i>Escherichia coli</i> on butanol as carbon source," <i>J Mol Evol.</i> 25(2):151-58 (1987).	
ATN		DE SMET, et al., "Characterization of intracellular inclusions formed by <i>Pseudomonas oleovorans</i> during growth on octane," <i>J. Bacteriol.</i> 154:870-78 (1983).	

Examiner's Signature	<i>Amy Neh</i>	Date Considered	10/6/00
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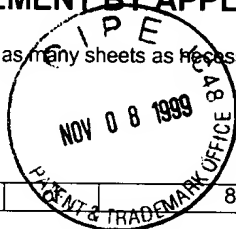
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/235,875
		Filing Date	January 22, 1999
		First Named Inventor	Lara Madison
		Group Art Unit	4744 1638
		Examiner Name	
Sheet 4	8	Attorney Docket Number	MBX 020



OTHER ART - NON PATENT LITERATURE DOCUMENTS			
Examiner's Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
ATN		DOI, et al., "Microbial synthesis and characterization of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate)," <i>Macromolecules</i> 28:4822-4828 (1995).	
		DONG & STAMS, "Localization of the enzymes involved in H ₂ and formate metabolism in <i>Syntrophospira bryantii</i> ," <i>Antonie Van Leeuwenhoek</i> . 67(4):345-50 (1995).	
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		ENGEL & MASSEY, "The purification and properties of butyryl-coenzyme A dehydrogenase from <i>Peptostreptococcus elsdenii</i> ," <i>Biochem J.</i> 125(3):879-87 (1971).	
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		GEORGE & SMIBERT, "Fumarate reduction and product formation by the Reiter strain of <i>Treponema phagedenis</i> ," <i>J Bacteriol.</i> 152(3):1049-59 (1982).	
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		HALL, et. al., "Cloning of the <i>Nocardia corallina</i> polyhydroxyalkanoate synthase gene and production of poly-(3-hydroxybutyrate-co-3-hydroxyhexanoate) and poly-(3-hydroxyvalerate-co-3-hydroxyheptanoate)," <i>Can. J. Microbiol.</i> 44(7):687-91 (1998).	
ATN		HARTEL & BUCKEL, "Sodium ion-dependent hydrogen production in <i>Acidaminococcus fermentans</i> ," <i>Arch Microbiol.</i> 166(5):350-6 (1996).	

Examiner's Signature	<i>Amy Nelson</i>	Date Considered	10/6/00
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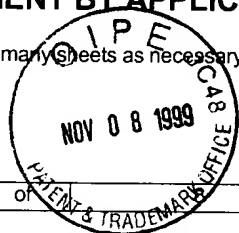
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		Filing Date	January 22, 1999
		First Named Inventor	Lara Madison
		Group Art Unit	471 1638
		Examiner Name	
		Attorney Docket Number	MBX 020
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ATN	1	HAYWOOD, et al., "Characterization of two 3-ketothiolases possessing differing substrate specificities in the polyhydroxyalkanoate synthesizing organism <i>Alcaligenes eutrophus</i> ," <i>FEMS Microbiol. Lett.</i> 52:91-96 (1988).	
	1	HAYWOOD, et al., "The importance of PHB-synthase substrate specificity in polyhydroxyalkanoate synthesis by <i>Alcaligenes eutrophus</i> ," <i>FEMS Microbiol. Lett.</i> 57:1-6 (1989).	
	1	HOCKING & MARCHESSAULT, "Biopolyesters" in <i>Chemistry and Technology of Biodegradable Polymers</i> , (Griffin, ed.) pp. 48-96, Chapman and Hall: London, 1994.	
	1	HOCKING & MARCHESSAULT, "Syndiotactic poly[(R,S)-β-hydroxybutyrate] isolated from methylaluminum-catalyzed polymerization," <i>Polym. Bull.</i> 30:163-70 (1993).	
	1	HOLMES, "Biologically Produced (R)-3-hydroxyalkanoate Polymers and Copolymers," in <i>Developments in Crystalline Polymers</i> (D.C. Bassett, Ed.), pp. 1-65, Elsevier: London, 1988.	
	1	HORI, et al., "Ring-Opening Copolymerization of Optically Active β-Butyrolactone with Several Lactones Catalyzed by Distannoxane Complexes: Synthesis of New Biodegradable Polyesters," <i>Macromolecules</i> 26:4388-90 (1993).	
	1	HORI, et al., "Ring-Opening Polymerization of optically Active β-Butyrolactone Using Distannoxane Catalysts: Synthesis of High Molecular Weight Poly(3-hydroxybutyrate)," <i>Macromolecules</i> 26:5533-34 (1993).	
	1	HUISMAN, et al., "Synthesis of poly-3-hydroxyalkanoates is a common feature of fluorescent pseudomonads," <i>Appl. Environ. Microbiol.</i> 55(8):1949-54 (1989).	
	1	IMAMURA, et al., "Purification of the multienzyme complex for fatty acid oxidation from <i>Pseudomonas fragi</i> and reconstitution of the fatty acid oxidation system," <i>J. Biochem. (Tokyo)</i> 107(2):184-89 (1990).	
ATN	1	JESUDASON & MARCHESSAULT, "Synthetic Poly[(R,S)-β-hydroxyalkanoates] with Butyl and Hexyl Side Chains," <i>Macromolecules</i> 27:2595-602 (1994).	

Examiner's Signature	<i>Amy Neh</i>	Date Considered	10/6/00
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		Examiner Name	
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ATN		KATO, et al., "Production of a novel copolyester of 3-hydroxybutyric acid with a medium-chain-length 3-hydroxyalkanoic acids by <i>Pseudomonas</i> sp. 61-3 from sugars," <i>Appl. Microbiol. Biotechnol.</i> 45:363-70 (1996).	
		KEMNITZER, et al., "Preparation of predominantly Syndiotactic Poly(β-hydroxybutyrate) by the Tributyltin Methoxide Catalyzed Ring-Opening Polymerization of racemic β-Butyrolactone," <i>Macromolecules</i> 26:1221-29 (1993).	
		LAFFERTY, et al., "Microbial Production of Poly-β-hydroxybutyric acid" in <i>Biotechnology</i> (Rehm & Reed, eds.), pp. 135-76, Verlagsgesellschaft: Weinheim, 1988.	
		LE BORGNE & SPASSKY, "Stereoelective polymerization of β-butyrolactone," <i>Polymer</i> 30:2312-19 (1989).	
		LEE, et al., "Biosynthesis of copolyesters consisting of 3-hydroxybutyric acid and medium chain length 3-hydroxyalkanoic acids from 1,3-butanediol or from 3-hydroxybutyrate by <i>Pseudomonas</i> sp. A33," <i>Appl. Microbiol. Biotechnol.</i> 42:901-09 (1995).	
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		MARTINEZ, et al., "pACYC184-derived cloning vectors containing the multiple cloning site and <i>lacZ</i> reporter gene of pUC8/9 and pUC18/19 plasmids," <i>Gene</i> 68:159-62 (1988).	
		MILLER & JENESEL, "Enzymology of butyrate formation by <i>Butyrivibrio fibrisolvens</i> ," <i>J Bacteriol.</i> 138(1):99-104 (1979).	
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ATN		MULLANY, et al., "Genes encoding homologues of three consecutive enzymes in the butyrate/butanol-producing pathway of <i>Clostridium acetobutylicum</i> are clustered on the <i>Clostridium difficile</i> chromosome," <i>FEMS Microbiol. Lett.</i> 124(1):61-7 (1994).	

Examiner's Signature	<i>Amy Nelson</i>	Date Considered	10/6/00
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ATN	1	MÜLLER & SEEBACH, "Poly(hydroxyalkanoates): A Fifth Class of Physiologically Important Organic Biopolymers," <i>Angew. Chem. Int. Ed. Engl.</i> 32: 477-502 (1993).	
	2	PIEPER & STEINBÜCHEL, "Identification, cloning and sequence analysis of the poly(3-hydroxyalkanoic acid) synthase gene of the gram-positive bacterium <i>Rhodococcus ruber</i> ," <i>FEMS Microbiol. Lett.</i> 75(1):73-9 (1992).	
	3	PLOUX, et al., "The NADPH-linked acetoacetyl-CoA reductase from <i>Zoogloea ramigera</i> . Characterization and mechanistic studies of the cloned enzyme over-produced in <i>Escherichia coli</i> ," <i>Eur. J. Biochem.</i> 174(1):177-82 (1988).	
	4	PRAMANIK, et al., "Five different enzymatic activities are associated with the multienzyme complex of fatty acid oxidation from <i>Escherichia coli</i> ," <i>J. Bacteriol.</i> 137(1):469-73 (1979).	
	5	SAMBROOK, et. al., in <i>Molecular Cloning, a laboratory manual</i> , (2nd Ed.), Cold Spring Harbor Laboratory Press: Cold Spring Harbor, NY, 1992.	
	6	SHIMAMURA, et al., "Physical properties and biodegradability of microbial poly(3-hydroxybutyrate-co-3-hydroxyhexanoate)," <i>Macromolecules</i> 27:878-80 (1994).	
	7	STEINBÜCHEL & VALENTIN, "Diversity of bacterial polyhydroxyalkanoic acids," <i>FEMS Microbiol. Lett.</i> 128:219-28 (1995).	
	8	STEINBÜCHEL & WIESE, "A <i>Pseudomonas</i> strain accumulating polyesters of 3-hydroxybutyric acid and medium-chain-length 3-hydroxyalkanoic acids," <i>Appl. Microbiol. Biotechnol.</i> 37:691-97 (1992).	
	9	STEINBÜCHEL, "Polyhydroxyalkanoic Acids" in <i>Biomaterials</i> (Byrom, ed.), pp. 123-213, MacMillan Publishers: London, 1991.	
ATN	10	TANAHASHI & DOI, "Thermal Properties and Stereoregularity of Poly(3-hydroxybutyrate) Prepared from optically Active β-Butyrolactone with a Zinc-Based Catalyst," <i>Macromolecules</i> 24:5732-33 (1991).	

Examiner's Signature	<i>Amy Nelson</i>	Date Considered	10/6/00
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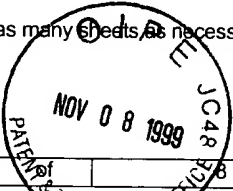
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		Application Number	09/235,875
		Filing Date	January 22, 1999
		First Named Inventor	Lara Madison
		Group Art Unit	4744 1638
		Examiner Name	
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OTHER ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner's Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
AJN	*	WILLIAMSON & ENGEL, "Butyryl-CoA dehydrogenase from <i>Megasphaera elsdenii</i> . Specificity of the catalytic reaction," <i>Biochem J.</i> 218(2):521-9 (1984).	
AJN	*	XIE, et al., "Ring-opening Polymerization of β -butyrolactone by Thermophilic Lipases," <i>Macromolecules</i> 30:6997-98 (1997).	
AJN	*	YARLETT, et al., "Butyrate formation from glucose by the rumen protozoan <i>Dasytricha ruminantium</i> ," <i>Biochem. J.</i> 228(1):187-92 (1985).	

Examiner's Signature		Date Considered	10/6/00
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Sheet		2		of		2							

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